Serial No.: 09/877,802

Preliminary Amendment Accompanying Request for Continued Examination &

Petition to Revive

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-20 Previously Canceled

Canceled Herein Claim 21-33

(New) A transdermal device comprising: Claim 34.

an antigen composition applied to or impregnated on a transdermal delivery vehicle comprising an antigen derived from MPB64 or MPT64 or an antigen with the characteristics of MPB64 or MPT64 wherein the transdermal device can distinguish between an active mycobacterium species infection and a Mycobacterium tuberculosis infection controlled by the patient's natural immune mechanisms or controlled by drug therapy.

(New) The transdermal device of Claim 34, wherein the antigen composition Claim 35. further comprises a surfactant.

(New) The transdermal device of Claim 35, wherein the surfactant is a non-ionic Claim 36. surfactant.

The transdermal device of Claim 36, wherein the surfactant is a Claim 37. (New) polyoxyethylene sorbitan derivative.

The transdermal device of Claim 37, wherein the polyoxyethylene Claim 38. sorbitan derivative is polyoxyethylene sorbitan monooleate.

(New) The transdermal device of claim 34, wherein the transdermal device is Claim 39. medical tape, medical plaster, gauze, patch, adhesive solution, or a patch band.

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(New) A method of distinguishing a patient with an active tuberculosis infection Claim 40. from a patient that has been exposed to a Mycobacterium tuberculosis but has controlled the infection by natural immune mechanisms comprising:

exposing the patient to a transdermal delivery device with an antigen composition applied to or impregnated on the transdermal delivery device wherein the antigen composition is an antigen derived from MPB64 or MPT64 or an antigen with the characteristics of MPB64 or MPT64 wherein the transdermal device can distinguish between an active mycobacterium species infection and a mycobacterium tuberculosis infection controlled by the patient's natural immune mechanisms.

The method of Claim 40, wherein the antigen composition further Claim 41. comprises a surfactant.

(New) The method of Claim 41, wherein the surfactant is a non-ionic surfactant. Claim 42.

(New) The method of Claim 42, wherein the surfactant is a polyoxyethylene Claim 43. sorbitan derivative.

(New) The method of Claim 43, wherein the polyoxyethylene sorbitan derivative Claim 44. is polyoxyethylene sorbitan monooleate.

(New) The method of Claim 40, wherein the transdermal device is medical tape, Claim 45. medical plaster, gauze, patch, adhesive solution, or a patch band.

(New) A method of diagnosing infection with Mycobacterium tuberculosis in a Claim 46. patient with immune deficiency disease (AIDS):

exposing the patient to a transdermal delivery device with an antigen composition applied to or impregnated on the transdermal delivery device wherein the antigen composition is an antigen derived from MPB64 or MPT64 or an antigen with the characteristics of MPB64 or MPT64.

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The method of Claim 46, wherein the antigen composition further Claim 47. (New) comprises a surfactant.

(New) The method of Claim 47, wherein the surfactant is a non-ionic surfactant. Claim 48.

The method of Claim 48, wherein the surfactant is a polyoxyethylene (New) Claim 49. sorbitan derivative.

(New) The method of Claim 49, wherein the polyoxyethylene sorbitan derivative Claim 50. is polyoxyethylene sorbitan monooleate.

(New) The method of claim 46, wherein the transdermal device is medical tape, Claim 51. medical plaster, gauze, patch, adhesive solution, or a patch band.

(New) A method of monitoring effect of drug therapy in a patient infected with Claim 52. Mycobacterium tuberculosis comprising:

exposing the patient to a transdermal delivery device with an antigen composition applied to or impregnated on the transdermal delivery device wherein the antigen composition is an antigen derived from MPB64 or MPT64 or an antigen with the characteristics of MPB64 or MPT64 wherein the transdermal device can distinguish between an active mycobacterium species infection and a Mycobacterium tuberculosis infection controlled by the drug therapy.

The method of Claim 52, wherein the antigen composition further Claim 53. (New) comprises a surfactant.

(New) The method of Claim 53, wherein the surfactant is a non-ionic surfactant. Claim 54.

(New) The method of Claim 54, wherein the surfactant is a polyoxyethylene Claim 55. sorbitan derivative.

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(New) The method of Claim 55, wherein the polyoxyethylene sorbitan derivative Claim 56. is polyoxyethylene sorbitan monooleate.

(New) The method of claim 52, wherein the transdermal device is medical tape, Claim 57. medical plaster, gauze, patch, adhesive solution, or a patch band.